

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P205705

Luminaire Tested: **LD4B20D010 EU4B10208035 4LBSH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P205705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35319)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B20D010 EU4B10208035 4LBSH1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH SEMI-SPECULAR CLEAR TRIM
WATTAGE D010TR-21.86W DE010-20.46W D5LT-21.24W DMX-20.89W DL2-22.5W
DL3-21.8 6W DLE-22.46W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2038.1 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

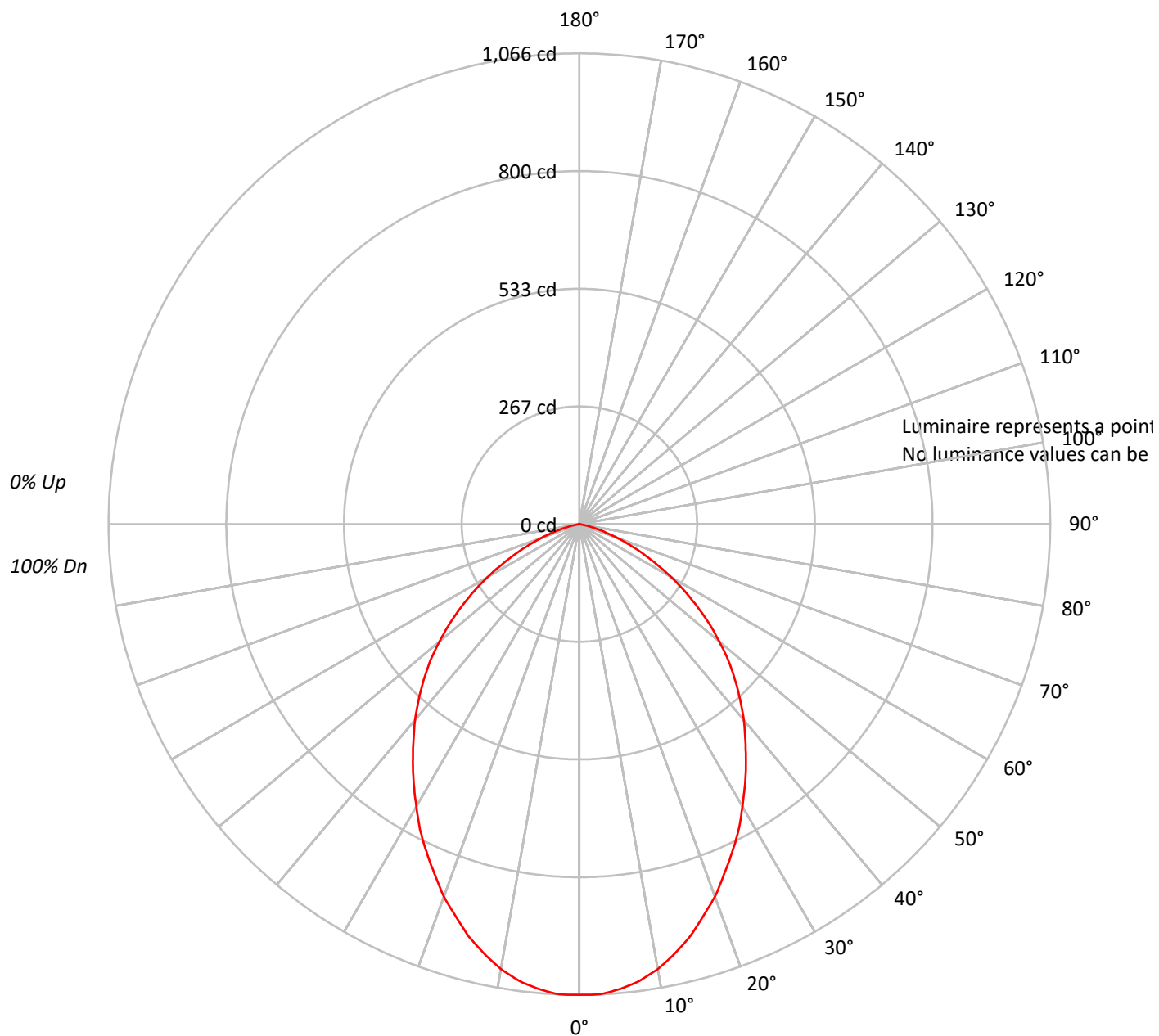
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P205705

CATALOG NUMBER: LD4B20D010 EU4B10208035 4LBSH1

Luminous Intensity Polar Plot





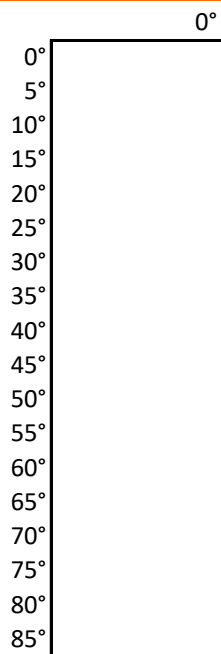
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	104	101	108	105	102	99		101	98	96		97	95	93		93	92	90
2	102	96	90	85	100	94	88	84		90	86	82		87	83	80		84	81	79
3	95	85	78	73	92	84	77	72		81	75	71		78	74	70		76	72	69
4	87	77	69	63	85	75	68	63		73	67	62		71	65	61		69	64	60
5	81	69	61	55	79	68	61	55		66	60	55		64	59	54		63	58	53
6	75	63	55	49	73	62	54	49		60	54	49		59	53	48		57	52	48
7	70	58	50	44	68	57	49	44		55	49	44		54	48	43		53	47	43
8	65	53	45	40	64	52	45	40		51	44	39		50	44	39		49	43	39
9	61	49	41	36	60	48	41	36		47	40	36		46	40	36		45	40	35
10	58	45	38	33	56	45	38	33		44	37	33		43	37	33		42	37	33

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.8	4.9
10°-20°	271.4	13.3
20°-30°	376.9	18.5
30°-40°	411.3	20.2
40°-50°	383.7	18.8
50°-60°	291.2	14.3
60°-70°	159.4	7.8
70°-80°	43.9	2.2
80°-90°	0.6	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	748.1	36.7
0°-40°	1159.3	56.9
0°-60°	1834.2	90.0
0°-90°	2038.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2038.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1066	
5°	1057	100
15°	967	271
25°	819	377
35°	658	411
45°	498	384
55°	325	291
65°	159	159
75°	38	44
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1066.0
2.5°	1066.0
5°	1057.0
7.5°	1043.5
10°	1023.3
12.5°	996.4
15°	967.2
17.5°	931.3
20°	897.6
22.5°	857.2
25°	819.1
27.5°	780.9
30°	738.3
32.5°	697.9
35°	657.5
37.5°	617.1
40°	579.0
42.5°	538.6
45°	498.2
47.5°	457.8
50°	412.9
52.5°	370.3
55°	325.4
57.5°	282.8
60°	240.1
62.5°	197.5
65°	159.3
67.5°	123.4
70°	92.0
72.5°	62.8
75°	38.1
77.5°	18.0
80°	4.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)